

Services for Safe and Compliant Machinery

PILZ
THE SPIRIT OF SAFETY

Consulting and Engineering Services
Trainings

Services by Pilz

» You can benefit from our extensive portfolio – tailored to your needs. «

Do you require tailored Consulting and Engineering Solutions?

» Our international team of dedicated safety experts supports you on the topic of machinery safety – from risk assessment to the declaration of conformity. «

» Become an expert now – multi-day courses with TÜV-approved certification! «

Are you looking for qualified training courses?

» We provide further training – our training portfolio offers specialist knowledge from beginner to expert level on machinery safety, standards and regulations, robotics, products and technologies in automation technology. «

Your Projects Belong in Safe Hands

Pilz Safety Experts ensure the safety and security of machinery and maximum availability of your machines worldwide. Benefit from our wide-ranging portfolio which includes Consulting and Engineering Services as well as Training.

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Pilz – Your Partner for Safe Machinery Worldwide

Services by Pilz

As a global supplier of products, systems, software and services for safe automation, Pilz has established itself as a trusted safety expert, supporting customers across a wide range of industries worldwide. Our portfolio includes Consulting and Engineering Services throughout the Safety and Security lifecycle, compliance and regulatory support, Software and Product solutions, and comprehensive Training programs.



Our Services and Training courses are always based on current legal requirements, such as the EU-Machinery Regulation.

We support our customers in developing and implementing optimal and compliant safety strategies for machinery. With a global network of experienced safety experts, we offer tailored solutions that optimise the safety of your machinery while improving plant availability.

At the international level, more than 50 of our experts actively represent us in over 150 standards committees, where they help shape around 100 product and application standards.

We provide expert guidance and support across every phase of the machine lifecycle

1. Assessment of a machine's Safety status

2. Development of the safety concepts/designs for optimum approach

3. Implementation of the defined measures

4. Validation of safety devices and compliance

Partner with our experts to successfully:

- Integrate advanced safety solutions into new production facilities
- Provide direction on safety and industrial security requirements for existing, and new machinery
- Retrofit machinery to increase productivity and safety
- Train staff on national and international machine safety standards

Comprehensive expertise across a wide range of industries

Our safety experts understand the requirements of your sector and the specific technical challenges posed by your plant and machinery. We offer you services and solutions tailored to these needs.

Selected examples of industries in which we operate successfully:

- Packaging
- Fast Moving Consumer Goods
- Food and Beverage
- Healthcare technology
- Automotive
- Mechanical engineering
- Robotics





Pilz Services: Consulting and Engineering

Pilz offers Consulting and Engineering Services for the design, operation and optimisation of safety for machines worldwide. These Services cover all phases of the machine life cycle and aim to achieve machinery that is safe, secure and compliant.




PILZ

Our Services Portfolio

Services by Pilz

Through the design phase, ongoing operation, or as part of a retrofit – Pilz offers Services that support manufacturers and operators on their path to greater safety and efficiency for their machinery.



Existing Machinery

- Machinery Safety Screening
- Machinery Safety Evaluation
- Risk Assessment to Safety Validation
- Safety Upgrade
- Inspection of Safeguards

New Machinery

- Safety Design
- International Machine Compliance (CE/USA/NR-12)
- Machinery Acceptance

Corporate Services

- Corporate Standards Development
- Functional Safety Management
- Lockout Tagout System

Tools and Product Solutions

- MYZEL Lifecycle Platform
- Identification and Access Management (I.A.M.)
- Retrofit solutions

Speak to your Pilz safety expert today!

www.pilz.com/services



Specific Technologies

- Safe operation of AGVS
- Robotics Services
- Process Safety

Industrial Security

- Security Evaluation of Machinery
- Security Assessment of Machinery
- I.A.M. Design

Training and Competence

- Introduction
- Fundamental
- Advanced
- Expert

Note: Additional Services may be available in your region.

Services for Existing Machinery

Services by Pilz

To operate machines safely while maintaining or enhancing productivity, machinery must be regularly assessed for safety compliance, and appropriate measures implemented. Pilz Safety Experts provide support throughout the process – from Risk Assessment to Validation, from Design and Retrofitting or Installation of new components to the Inspection of Safeguards.

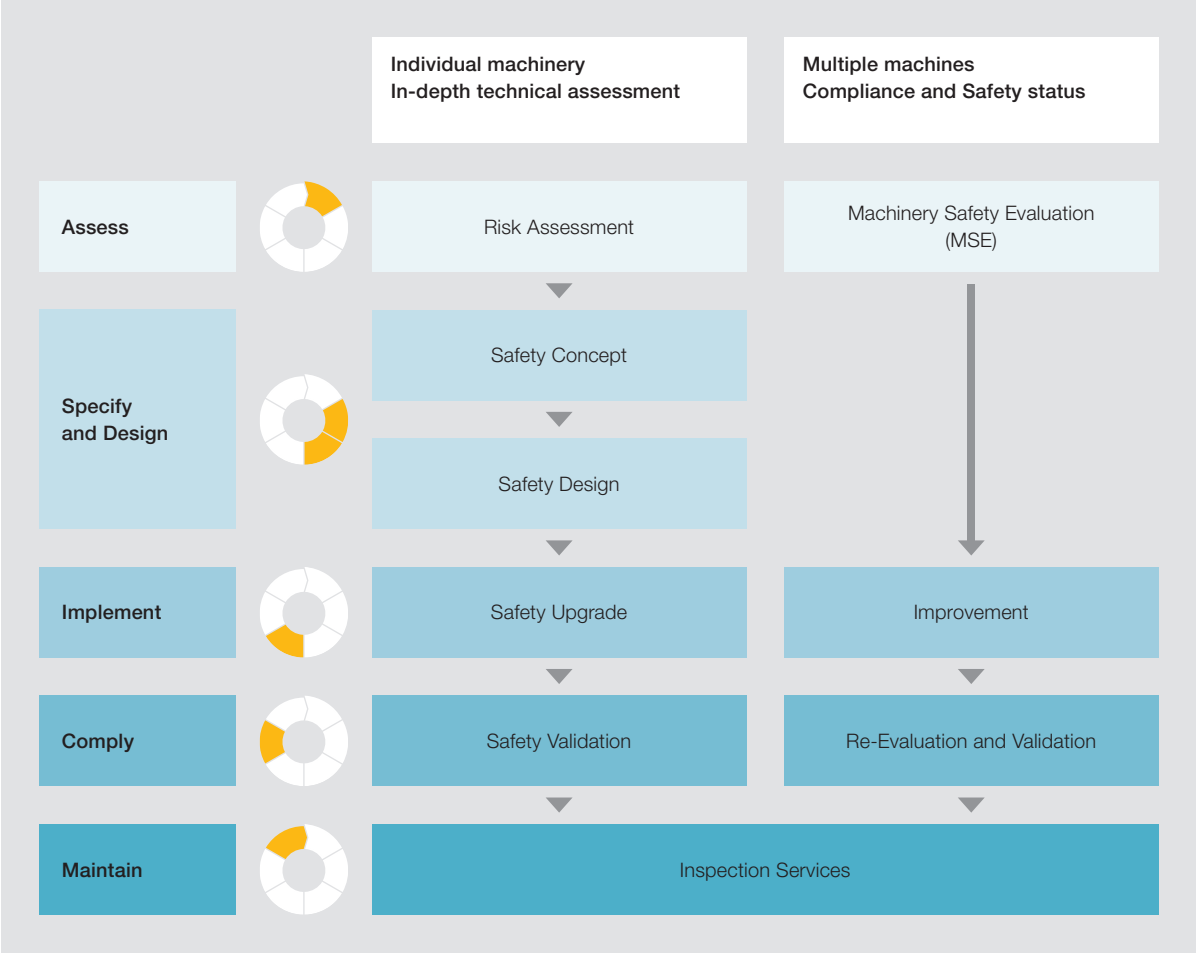


Machinery Safety Evaluation
Machinery Safety Evaluation provides a comprehensive overview of the safety and compliance status of machinery. Customers receive a practical list of measures to optimise safety and outline a route to compliance with applicable laws, standards and guidelines.

Machinery Safety Upgrades
In retrofit projects, the safety status of the machinery is assessed, a catalogue of measures is drawn up to bring the machinery up to the state of the art before the upgrade is implemented. Depending on the condition of the machinery, this includes retrofits in the areas of electrical engineering, control technology and safety technology.

Risk Assessment to Safety Validation
Receive a comprehensive Safety Service for existing machinery throughout its entire lifecycle. This service comprises various modules and can be implemented at any stage of the machinery's service life.

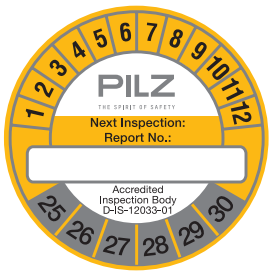
The individual packages consist of Risk Assessment, a conceptual outline of recommended safety measures, the Safety Upgrade and the Validation of the machinery. These steps ensure that the machines meet all national and international compliance requirements.



Consulting and Engineering Services for Existing Machinery

Inspection of Safeguards

Our Services for Inspection of Safeguards help end users to fulfil their obligations regarding the regular testing of safeguarding devices on machines. This includes initial and periodic inspections of light curtains and other safety devices on machinery.



Services for New Machinery

Services by Pilz

When designing machinery, it is essential to integrate safety requirements from the outset and to ensure compliance with the regulatory requirements of the regions where the machinery will be operated. Pilz provide expert support throughout the entire process, from the Safety Design stage (DRA) right through acceptance testing at the manufacturer's location (FAT) and site acceptance testing (SAT). We also support the entire process for International Machine Compliance procedures, helping you achieve conformity with applicable standards and regulations.

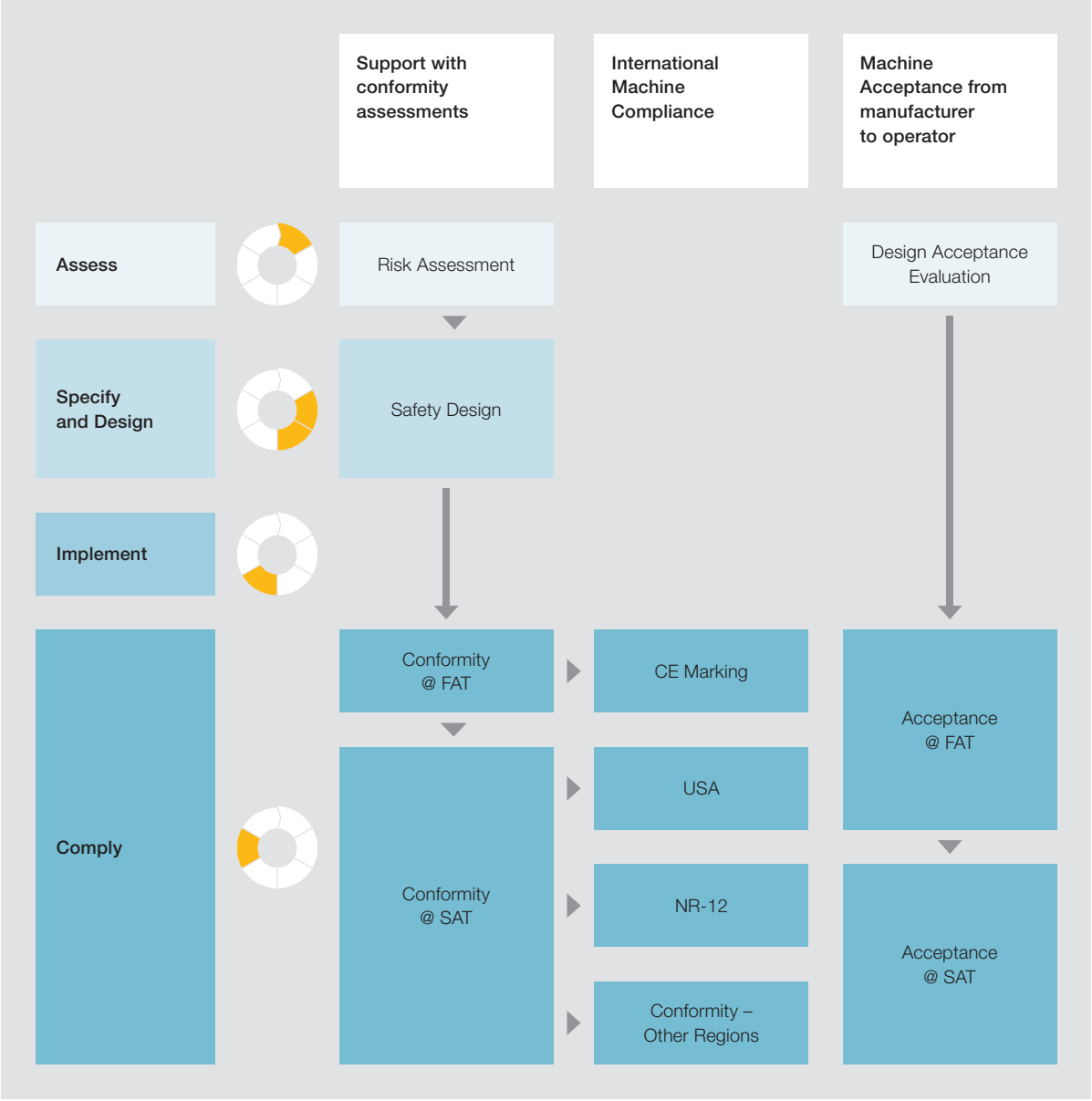


International Machine Compliance
Our experts advise companies worldwide on International Machine Compliance and provide practical support throughout the entire process. This also includes countries of the APAC region. In cooperation with our customers, we ensure that the plants and machinery meet the relevant regional requirements.

CE Marking
With this Service, we provide support throughout all phases of the CE marking process for new and modified machinery to be put into service within the EU. Assessment and Validations complement the necessary documentation. Pilz can act as an authorised representative during this process. At the end of the process, the machine is in compliance with the requirements of the EU-Machinery Regulation and other applicable regulations.

USA Compliance Management
We support manufacturers, system integrators and users who wish to sell and operate machinery on the US market with a comprehensive Compliance Service in accordance with the requirements of US legislation. Once the process is completed, the customer receives the necessary documentation required for certification of the machinery by the authorities in the USA.

NR-12 Compliance Management
This Service assists manufacturers, importers and end users to achieve conformity with Brazilian standard NR-12 (Norma Regulamentadora) though assessment of machinery and certification. NR-12 Compliance Management can be provided within Brazil, and also in the machine‘s country of origin.



Consulting and Engineering Services for New Machinery

Machinery Acceptance (DRA/FAT/SAT)

With Machine Acceptance we offer users support at every stage of the procurement process – from Design (DRA) through Factory Acceptance Testing (FAT) to on-site Acceptance Testing (SAT) – independent of whether the plant is manufactured domestically or abroad. The result is a compliant and reliable Machine Acceptance process.

Specific Technology Services

Services by Pilz

Safe operation of robots and mobile platforms requires controlled system behavior, safe interaction with people and infrastructure as well as defined responses to error and hazardous situations – even in dynamic environments. Pilz provides support in the analysis and assessment of safety-critical functions helping organisations identify risks and implement effective safety measures to ensure safe and compliant operation.



Safe operation of Automated Guided Vehicles (AGV)
Our Service for safe operation and reliable interaction between people and AGV is based on the ISO 3691-4 standard and the essential requirements of EN ISO 12100.

We support the identification of typical hazards in mobile systems and the design of safety functions, such as speed limitation, obstacle detection and emergency stop activation, to ensure safe operation during use.



Robotics Services
For robotics applications we provide a Service to support the safe design and operation of industrial and collaborative robot systems. It is based on the Risk Assessment and the implementation of the requirements as defined in ISO 10218-1/2.

The process involves defining suitable protective measures and safety-related functions to enable safe interaction between humans and robots in various operating modes.

Industrial Security Services

For manufacturers and operators comprehensive Machinery Safety can only be achieved when safety and security are addressed together, as machinery must also be protected against cyber-attacks, operator error and unauthorized manipulation. Through our Industrial Security Services, we help you to identify and assess Security vulnerabilities in your machinery and prioritise risk mitigation measures to strengthen the security and resilience of your systems.

Services by Pilz

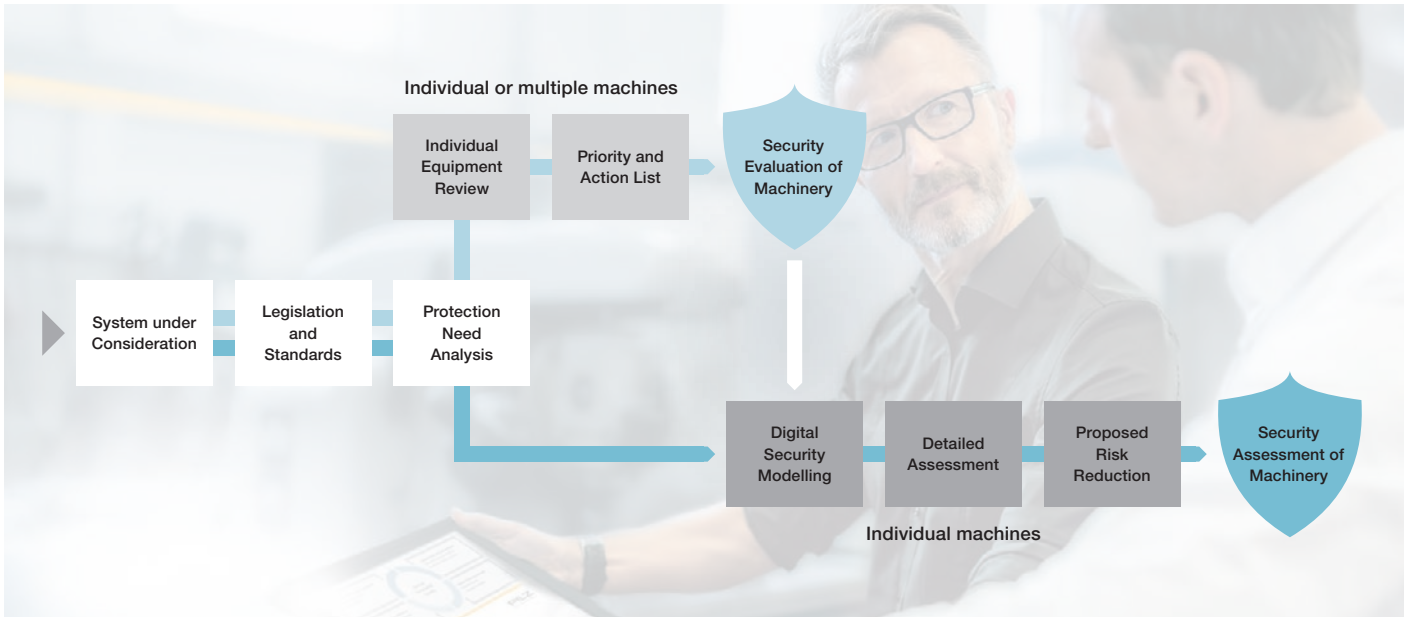
Security Evaluation of Machinery

- Evaluation of the machinery's Security status within your own OT
- Identification of critical components and evaluation of the associated risk
- Identification of significant security gaps
- Recommended risk reduction measures for risk mitigation

Security Assessment of Machinery

- In-depth, structured Security analysis in accordance with IEC 62443
- Identification of detailed and interlinked Security Risks
- Analysis of network segmentation and connections
- Comprehensive vulnerability Management
- Definition of detailed risk reduction strategies

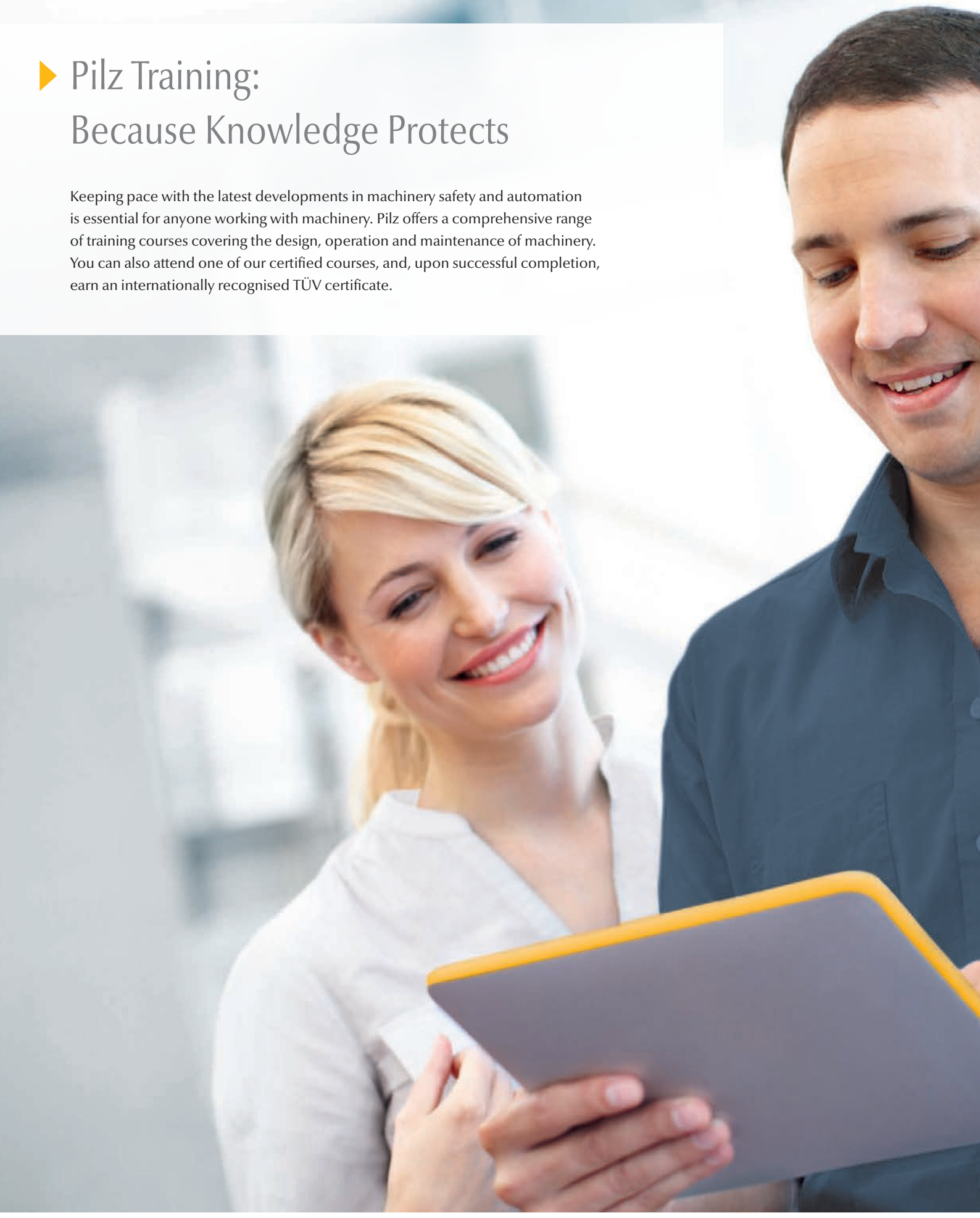
Two services. Individually or as a powerful duo.



Be aware of the risks. Strengthen Security. Protect what matters.

Pilz Training:
Because Knowledge Protects

Keeping pace with the latest developments in machinery safety and automation is essential for anyone working with machinery. Pilz offers a comprehensive range of training courses covering the design, operation and maintenance of machinery. You can also attend one of our certified courses, and, upon successful completion, earn an internationally recognised TÜV certificate.





Training Portfolio

More knowledge. More Safety and Security. More efficiency.

Because knowledge protects!
Whether it is the legal foundations of Machinery Safety, current security standards or application-oriented product training – our modular training portfolio offers the right training for every challenge and every skill level. Put together your own personalised learning path – tailor-made knowledge for lasting learning success and practical know-how for safe machinery in your company.

Level	Machinery Safety		
	General	Compliance	Functional Safety
 Introduction	Introduction to Machinery Safety	Safety meets Security: Implications of the EU Machinery Regulation, Cyber Resilience Act and NIS 2 Directive	
 Fundamental	Fundamentals of Machinery Safety		
	Machinery Risk Assessment according to ISO 12100		
 Advanced		Basis of CE Marking	Design of Safety Control Systems according to ISO 13849-1 and IEC 62061
 Expert	CMSE® – Certified Machinery Safety Expert	CECE – Certified Expert in CE Marking	CEFS – Certified Expert in Functional Safety
	CMSE® – Recertification	CECE – Recertification	CEFS – Recertification

Further information on individual training courses can be found at:

www.pilz.com/trainings



Specific Topics	Industrial Security	Product Application
LoTo and other Means of Energy Control	Fundamentals of Industrial Security	PNOZmulti – Programming and Service
Electrical Safety in Industrial Installations – IEC 60204-1		Automation System PSS 4000 with PSSu PLC – Programming and Service
Robot Safety and Integration		
Safety Requirements and Integration of AGVs		
	CESA – Certified Expert for Security in Automation	

Success Through Qualification

Machinery Safety training courses provide practical knowledge and increase participants' expertise in safe and secure design and safe operation of machinery. We support you with a comprehensive range of training courses covering everything from Functional Safety to Industrial Security.



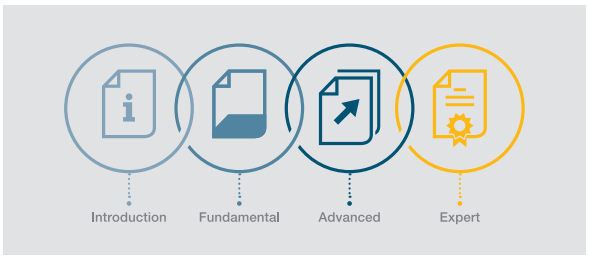
Machinery Safety Training
Machinery Safety training is essential for maintaining a safe working environment and ensuring compliance with legal requirements. Pilz offers a comprehensive range of courses to help you expand your knowledge and expertise across a variety of machinery safety topics.



Training courses on Industrial Security
Cyberattacks, tampering or operator errors pose a major threat to the safety of your machinery and systems. Through our Industrial Security Trainings, offered at different levels, you will learn how to minimise vulnerabilities and protect your machinery. Become aware of your responsibilities and acquire specialist knowledge of the relevant standards.



Product Application Training
In our product application training courses, you will learn how to apply standards-based specialist knowledge to commissioning and control technology in a practical way.



Tailored expertise: build and deepen your knowledge to become an expert!

From Beginners to Experts

Choose from a range of training levels: from introduction to in-depth specialist topics and personal expert certification – we offer tailored modules to suit your individual level of knowledge. Our international Training courses are available worldwide in various formats.



From beginner to expert –
help ensure safety in the world!
From courses on machine operation as an introduction to in-depth specialist topics, our range of Training levels offer machine operators and manufacturers suitable modules to build their expertise, tailored to their individual knowledge.

For further training to become an expert in all aspects of Machinery Safety, we offer a special range of international qualifications in collaboration with TÜV NORD:

- CMSE® – Certified Machinery Safety Expert
- CECE – Certified Expert in CE-Marking
- CEFS – Certified Expert in Functional Safety
- CESA – Certified Expert for Security in Automation

After successfully completing the integrated exam, you will receive your globally recognised certificate, issued by TÜV NORD as proof of your personal certification.

Suitable learning formats online
or on-site – worldwide!
Our training portfolio includes flexible learning formats: Our live online seminars enable you to take part in real time – no matter where in the world you are. For particularly intensive learning and direct interaction, we offer face-to-face training – either at our venues or directly at your location, tailored to your needs!

MYZEL Lifecycle Platform

Manage your machine lifecycle! Digital. Safe. Secure.

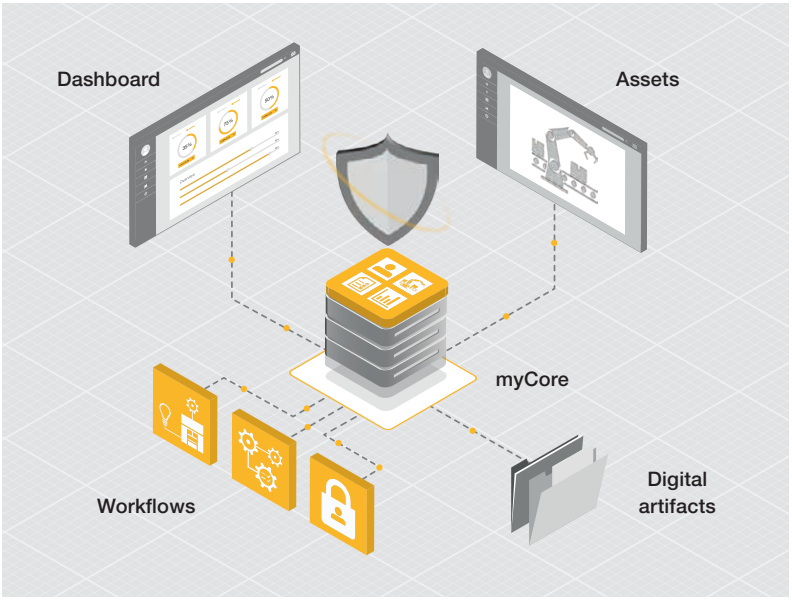
MYZEL®

The MYZEL Lifecycle Platform provides centralised, digital management of all relevant machine data. Records, certificates, logs, and employee data are organized, versioned, and fully documented. Digital workflows and checklists ensure error-free documentation, while the dashboard provides a transparent overview of all tasks throughout the machine's lifecycle. You benefit from minimized liability risks, enhanced safety, and the highest security standards through certified data storage in the EU.



Get in touch and find out more about MYZEL now:

www.myzel.com



Our digital workflows support you throughout the entire machine lifecycle:

The heart of the solution: myCore

- Employees, machinery, components
- Instructions, maintenance schedules, validations and conformity declarations
- Training certificates and guidelines

mySafeDesign – Safe machine design

- Risk assessments including AI-supported identification of risks via image recognition
- Validation of new machinery

mySafeOperation – Safe machine operation

- Templates for statutory inspection obligations, maintenance and recurring validations for existing machinery

myAccessControl – Secure access management

- OT security for plant and machinery
- Management of employee authorisations and qualifications

Pilz Automation Solutions

Pilz is your global partner for safe automation and Machinery Safety.



Comprehensive Solutions for safe automation

Pilz is a global provider of products, systems, and services for automation technology. We help customers operate their plants and machinery safely, efficiently, and in a future-proof way. Our portfolio includes solutions for Safety, Industrial Security, and Automation. These range from Sensors, Control Technology and Software Solutions to systems for Identification and Access Management. Customers benefit from easy integration, high availability, and comprehensive diagnostic capabilities.

Our solutions are suitable for a wide range of applications: from individual machines with simple requirements to complex, networked plants and production lines.

Experience Pilz:

www.pilz.com

Support

Technical support is available from Pilz round the clock.

Americas
Brazil
+55 11 97569-2804
Canada
+1 888 315 7459
Mexico
+52 55 5572 1300
USA (toll-free)
+1 877-PILZUSA (745-9872)

Asia
China
+86 400-088-3566
Japan
+81 45 471-2281
South Korea
+82 31 778 3390

Australia and Oceania
Australia
+61 3 95600621
New Zealand
+64 9 6345350

Europe
Austria
+43 1 7986263-444
Belgium, Luxembourg
+32 9 3217570
France
+33 3 88104003
Germany
+49 711 3409-444
Ireland
+353 21 4804983
Italy, Malta
+39 0362 1826711
Scandinavia
+45 74436332
Spain
+34 938497433
Switzerland
+41 62 88979-32
The Netherlands
+31 347 320477
Türkiye
+90 216 5775552
United Kingdom
+44 1536 460866

You can reach our international hotline on:
+49 711 3409-222
support@pilz.com

Reporting security vulnerabilities or security incidents
If you would like to report a security vulnerability or a security incident in connection with a Pilz product, please contact our **Pilz Product Security Incident Response Team (PSIRT).**
You can reach us at: www.pilz.com/psirt

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www.pilz.com/linkedin
www.pilz.com/youtube

German Standards BRAND OF THE CENTURY 2025

Presented by:

Pilz GmbH & Co. KG
Felix-Wankel-Straße 2
73760 Ostfildern, Germany
Tel.: +49 711 3409-0
E-Mail: info@pilz.com, Internet: www.pilz.com

We are represented internationally. Please refer to our homepage www.pilz.com for further details or contact our headquarters.

Headquarters: Pilz GmbH & Co. KG, Felix-Wankel-Straße 2, 73760 Ostfildern, Germany
Telephone: +49 711 3409-0, E-Mail: info@pilz.com, Internet: www.pilz.com

PILZ
THE SPIRIT OF SAFETY

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